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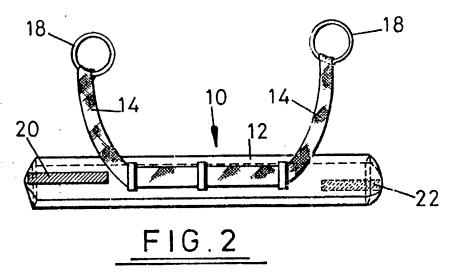
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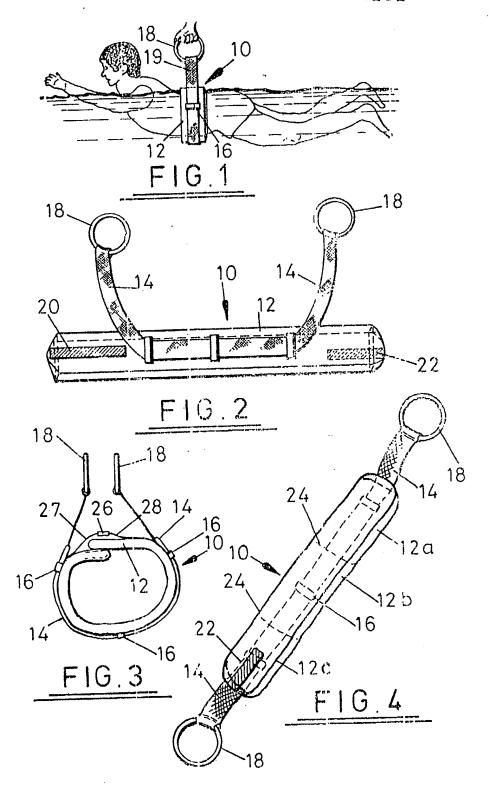
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(54) Swimming aid

(57) An improved non-inflatable swimming aid (10) is described which is particularly suited in assisting children and the disabled on learning to swim. The swimming aid (10) includes a buoyant belt (12) with a nylon strap (14) which can be fastened around a childs waist by Velcro fasteners (20,22) and which has separate handles (18) attached to the belt for gripping by a swimming teacher. In use, the belt permits freedom of movement of the users arms and legs and also, at the same time, ensures an adequate degree of supervision of the child because the teacher has to hold the belt. Moreover, the swimming aid belt is made of a non-inflatable closed cell PVC foam so that buoyancy is retained and this provides additional confidence to the child.





SPECIFICATION

Swimming aid

5 The present invention relates to a swimming aid, particularly, but not exclusively for fitting around the waist of children and for teaching children to swim.

Teaching children and in particular, young
10 children to swim is difficult. Many children are inherently afraid of water and are reluctant to let go of the parent, and existing buoyancy aids such as arm floats and life belts often restrict the movement of the arms and legs
15 which are necessary to develop a proper approach and movement to learn to swim properly. Furthermore, with such floatable devices leakage of air can occur with the result that buoyancy varies and causes difficulties or

20 complications in floating. This could affect the confidence of a child and is a further disadvantage associated with such existing devices.

An object of the present invention is to provide an improved swimming aid which obvi25 ates or mitigates one or more of the aforesaid disadvantages. This is achieved by providing a buoyant belt which can be fastened around a childs waist by Velcro fasteners and which has separate handles attached to the belt for

30 gripping by a swimming teacher. In use, the belt permits freedom of movement of the users arms and legs and also, at the same time, ensures an adequate degree of supervision of the child because the teacher has to hold the

35 belt. Moreover, the swimming aid belt is made of non-inflatable closed cell PVC foam so that buoyancy is retained and provides additional confidence to the child.

As an added feature, the device is made of 40 bright fluorescent materials to provide easy visibility and it can also be used as a float for the child in the absence of swimming tuition.

The aid is made of inexpensive readily available materials and fastening is achieved using 45 Velcro (Trade Mark) type fasteners which is easy to attach and release even for young children.

According to the present invention there is provided a swimming aid comprising a buoy50 ant belt portion adapted to be fastened around the waist of a user, said buoyant belt portion having a strap means coupled thereto for assisting in supporting the weight of the user, said strap means having holding means for holding the device to support the user and in use permit freedom of movement of the limbs of the user.

Preferably, the buoyant belt portion has a cover which includes Velcro fasteners dis-60 posed on the inside and outside of the belt for fastening and unfastening the swimming aid round the waist of a user.

Preferably, the strap means passes through strap loops disposed on the outside of the 65 buoyant belt portion to be strapped and terminates at said holding means in the form of handles for gripping by a teacher or helper.

Preferably, the belt wrap length is adjustable to accommodate varying sizes of user by 70 varying the overlap of the Velcro fasteners. Conveniently the belt is made of brightly coloured fluorescent materials to assist in identification of the user.

Preferably also, the buoyant belt portion
75 consists of non-inflatable closed cell PVC buoyant foam and has a fluorescent cover which is water repellent.

These and other aspects of the invention will become apparent from the following de-80 scription when taken in combination with the accompanying drawings in which:

Fig. 1 is a side elevation of a child depicted learning to swim using a device in accordance with an embodiment of the invention;

Fig. 2 is an enlarged view of the device of Fig. 1 with the belt unrolled.

Fig. 3 is an end elevation of a rolled up belt shown in Fig. 1; and

Fig. 4 is a perspective inside view of the 90 belt shown in Figs. 1 to 3.

Reference is first made to Fig. 1 which depicts a swimming aid 10 in accordance with an embodiment of the invention placed around the waist of a child and being held by a supervisor. It will be appreciated that in this position with no restriction on the movement of the childs arms and legs the proper swimming techniques and strokes can be taught and learned. It will be seen that the swimming aid consists of a waist belt 12 around which is placed a nylon strap 14 held in place by belt loops 16 and the ends of which are attached to circular plastic rings approximately 33/4" in diameter which are held by the supervisor.

105 Reference is now made to Figs. 2, 3 and 4 of the drawings which depict the swimming belt aid in greater detail. The belt 12 is made of a single piece of thick closed cell PVC foam (Vitacell brand, Vita Salford Ltd., UK) 110 which is totally water repellent and nonabsorbing and is proportioned to be 32" by 4" by 20mm thick. Sewn around the foam is a fluorescent orange 100% nylon which is factory treated on both sides with water repel-

115 lent agents. Three belt ties 16 are sewn to the orange nylon on the outside wall as best seen in Fig. 3 and the length of 50" by 50mm green nylon strapping 14 is passed through the belt loops 16. On each end of the green

120 strapping the plastic ring 18 is diposed, whether generally spaced apart, or parallel as seen in Fig. 3, and is gripped by an adult using a single hand or using two hands. The belt 12 includes Velcro fasteners 20 and 22

on the outside and inside surfaces of the belt respectively so that when worn as shown in Fig. 3 the ends of the belt overlap so that the fasteners 20 and 22 attach. It will be appreciated that because of the elongate fasteners

130 20 and 22 the size of the belt is adjustable to

4.

accommodate various waist sizes.

In use, the swimming aid is fitted round the child as shown in Fig. 1 and the Velcro fasteners adjusted until there is a snug fit. The 5 rings are then held by the supervisor and the child is free to practice swimming strokes. It is intended that this belt is not a buoyancy aid per se and should be worn only in the presence of a supervisor. If the supervisor decides 10 to let the child attempt to swim unaided the ends of the belt can be tied together so that the closed cell PVC foam provides some added buoyancy.

It will be appreciated that various modifica-15 tions may be made to the swimming aid hereinbefore described without departing from the scope of the invention. For example, any other suitable type and arrangement of Velcro fastener as well as other fasteners can be used 20 for the belt as long as it permits adjustment of the belt diameter and also means other than rings can be used to suspend the child, for example, rings may be omitted or replaced by fabric handles. In addition, the outside ma-25 terial can be replaced by any other suitable material and the sizes and dimensions of parts can be varied depending on requirements. For example, the closed cell foam can be 50mm or more thick. Although the buoyancy aid is 30 intended for use with children, it may also be used, on a larger version, for assisting adults when learning to swim. In addition it is particularly suitable for assisting disabled children and adults in swimming as well as learning to

35 swim. Furthermore, the belt may comprise separate pieces of foam which permit easier folding of the belt at the joins and which minimises foam wastage during manufacture. Thus, in-40 stead of having a single elongate piece 12, three separate foam pieces 12a,12b and 12c (Fig. 4) could be used and nylon cover at joins 24 may be sewn to facilitate folding of the belt. Also a clip 26, best seen in Fig. 3 may 45 be used in addition to the Velcro strips 20.22 which retain the belt closed to ensure that the belt closure is secure. The clip consists of straps 27,28 connected to opposite ends of the belt cover which have male and female 50 clip portions at their other ends which may be releasably coupled to form the closed clips 26 shown in Fig. 3.

Advantages of the invention are that it allows the teaching of children or adults to 55 swim without restricting the movement of the arms or legs. It is convenient and easy to use and the supervisor can suspend the child or adult with a single hand. The swimming aid uses relatively inexpensive materials and is ra-60 pidly and easily manufactured.

CLAIMS

1. A swimming aid comprising a buoyant belt portion adapted to be fastened around 65 the waist of a user, said buoyant belt portion

having strap means coupled thereto for assisting in supporting the weight of the user, said strap means having holding means for holding the device to support the user and in use, permit freedom of movement of the limbs of the user.

2. A swimming aid as claimed in claim 1 wherein the buoyant belt portion has a cover which includes Velcro fasteners disposed on 75 the inside and outside of the belt for fastening and unfastening the swimming aid round the waist of a user.

3. A swimming aid as claimed in claim 1 or claim 2 wherein the strap means passes through strap loops disposed on the outside of the buoyant belt portion to be strapped and terminates at said holding means in the form of handles for gripping by a teacher or helper.

4. A Swimming aid as claimed in any pre-85 ceding claim wherein the belt wrap length is adjustable to accommodate varying sizes of user by varying the overlap of the Velcro fasteners.

90 5. A swimming aid as claimed in any preceding claim wherein the buoyant belt portion consists of non-inflatable closed cell PVC buoyant foam and has a fluorescent cover which is water repellent.

95 6. A swimming aid as claimed in any preceding claim wherein said buoyant foam is a single piece of foam.

7. A swimming aid as claimed in any preceding claim which consists of separate pieces 100 of buoyant foam which define joining lines on said cover, said swimming aid being readily foldable along said joining lines.

8. A swimming aid as claimed in any preceding claim including releasable clip means 105 coupled to said cover for assisting in closure of said swimming aid when being worn by the user.

9. A swimming aid substantially as hereinbefore described with reference to the accom-110 panying drawings.

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